

Genesee Community College

530: Engineering Science A S Degree Requirements Table

FALL 2021 to CURRENT - NOT ACCEPTING NEW STUDENTS

ITEM	REQUIREMENT	CREDITS	SEMESTER
1	GCC CORE (LIBERAL ARTS & SCIENCES) REQUIREMENTS	25	As Listed
1a	MATHEMATICS MAT 141 Calculus 1 (Per note 1)	4	1st
1b	NATURAL SCIENCE CHE 101 General Chemistry 1	4	1st
1c	SOCIAL SCIENCE <u>Select One SUNY Approved Social Science Course</u>	3	4th
1d	HISTORY Select one: GEO 101, HIS 101, HIS 102, HIS 104, HIS 105, HIS 203, HIS 204, HIS 224, HIS 225	3	4th
1e	HUMANITIES, ARTS, LANGUAGE Waived	0	N/A
1f	BASIC COMMUNICATION 1 ENG 101 College Composition	3	1st
1g	BASIC COMMUNICATION 2 ENG 102 or ENG 105	3	2nd
1h	BASIC COMMUNICATION 3 SPE 103 or SPE 108 or SPE 109	3	2nd
1i	LIB ARTS & SCI ELECTIVE Waived	0	N/A
1j	SUNY GEN ED SELECTION Waived	0	N/A
1k	HEALTH/PE/ATH Select 2 credits from any HED, PED or ATH option	2	2nd
2	PROGRAM REQUIREMENTS	43	As Listed
2a	PSY 131 General Physics 1 (Fall only)	4	1st
2b	EGR 100 Introduction to Engineering	3	1st
2c	MAT 142 Calculus 2	4	2nd
2d	PSY 132 General Physics 2 (Spring only)	4	2nd
2e	MAT 245 Calculus 3 (Fall only)	4	3rd
2f	CIS 127 Computing in Math, Science, and Engineering (Fall only)	3	3rd
2g	EGR 235 Engineering Mechanics 1: Statics (Fall only)	3	3rd
2h	EGR 245 Circuit Analysis (Fall only)	4	3rd
2i	Select one: CHE 102, CHE 201, CHE 202, PHY 133, EGR 118	4	3rd
2j	EGR 236 Engineering Mechanics 2: Dynamics (Spring only)	3	4th
2k	EGR 255 Mechanics of Solids (Spring only)	3	4th
2l	MAT 255 Differential Equations (Spring only)	4	4th

ITEM	REQUIREMENT	CREDITS	SEMESTER
3	TOTAL CREDITS REQUIRED TO COMPLETE DEGREE	68	Upon Completion
3a	Semester 1 Total Credits	18	1st
3b	Semester 2 Total Credits	16	2nd
3c	Semester 3 Total Credits	18	3rd
3d	Semester 4 Total Credits	16	4th
4	GENERAL CURRICULUM INFORMATION	0	N/A
4a	Proficiency Requirements: As outlined in Procedure 321-Placement and Proficiency Requirements (click to see GCC Placement and Proficiency Guide for details), all students are required to demonstrate proficiency in reading, math, and writing skills prior to earning a college degree or certificate from Genesee Community College.	0	Prior to Completion
4b	Acceptance: To be accepted into the Engineering Science program, a student must meet the prerequisites for MAT 141 Calculus 1.	0	Prior to Acceptance
4c	Note 1: This course meets both a Local General Education requirement and a program specific requirement.	0	Upon Completion
4d	GPA of 2.0 Required for graduation	0	Upon Completion